Fact Sheet



For Final Renewal Permitting Action Under 45CSR30 and Title V of the Clean Air Act

Permit Number: **R30-01100007-2008**Application Received: **March 31, 2008**Plant Identification Number: **011-00007**Permittee: **Huntington Alloys Corporation**

Mailing Address: 3200 Riverside Drive Huntington, WV 25705

Physical Location: Huntington, Cabell County, West Virginia

UTM Coordinates: 379.2 km Easting • 4252.30 km Northing • Zone 17

Directions: Interstate 64 W to 29th Street Exit, go towards Huntington on Route 60 to

Washington Blvd intersection. Make a right and go across Washington Blvd bridge. Right turn on Riverside Drive. Enter plant through Main

Gate.

Facility Description

Huntington Alloys Corporation is a large rolling mill devoted exclusively to the production of wrought nickel and high nickel alloy products. This facility produces ingots, slabs, plate, sheet, strip, billets, rods, wire, pipe and tubing in approximately one hundred and twenty different alloys. It incorporates some two hundred manufacturing operations which include: melting and remelting of metals to produce alloy ingots, hot and cold rolling, forging, drawing, machining, grinding, shot blasting, pickling, annealing, and ancillary testing and byproduct recovery operations.

Emissions Summary

Plantwide Emissions Summary [Tons per Year]			
Regulated Pollutants	Potential Emissions	2007 Actual Emissions	
Carbon Monoxide (CO)	173.35	70.528	
Nitrogen Oxides (NO _X)	625.93	274.451	
Particulate Matter (PM ₁₀) PM_{10} is a component of TSP.	1085	37.784	
Total Particulate Matter (TSP)	1277	37.784	
Sulfur Dioxide (SO ₂)	4.18	1.184	
Volatile Organic Compounds (VOC)	53.5	8.255	

Hazardous Air Pollutants	Potential Emissions	2007 Actual Emissions
Nickel	190.78	5.159
Chromium	56.00	1.468
Manganese	9.211	0.111
Cobalt	1.259	0.038
Hydrochloric Acid	20.0	2.15
Hydrofluoric Acid	3.72	0.19

Some of the above HAPs may be counted as PM or VOCs.

Title V Program Applicability Basis

This facility has the potential to emit 173.35 tons per year of carbon monoxide, 625.93 tons per year of nitrogen oxides, 1085 tons per year of PM_{10} , 190.78 tons per year of nickel, 56 tons per year of chromium, and 20 tons per year of hydrochloric acid. Due to this facility's potential to emit over 100 tons per year of carbon monoxide, nitrogen oxides, and PM_{10} , and over 10 tons per year of a single HAP and over 25 tons per year of aggregate HAPs, Huntington Alloys Corporation is required to have an operating permit pursuant to Title V of the Federal Clean Air Act as amended and 45CSR30.

Legal and Factual Basis for Permit Conditions

The State and Federally-enforceable conditions of the Title V Operating Permits are based upon the requirements of the State of West Virginia Operating Permit Rule 45CSR30 for the purposes of Title V of the Federal Clean Air Act and the underlying applicable requirements in other state and federal rules.

This facility has been found to be subject to the following applicable rules:

Federal and State:	45CSR2	PM limits on boilers.
	45CSR6	Open burning prohibited.
	45CSR7	PM limits on manufacturing processes.
	45CSR10	SO_2 limits.
	45CSR11	Standby plans for emergency episodes.
	45CSR13	Construction Permits.
	45CSR15	HAP Emission Standards

	45CSR30	Operating permit requirement.
	45CSR34	HAP Emission Standards for Part 63 Sources
	40 C.F.R. Part 61	Asbestos inspection and removal
	40 C.F.R. Part 63, Subpart N	Chromium Electroplating MACT
	40 C.F.R. Part 64	Compliance Assurance Monitoring
	40 C.F.R. Part 82, Subpart F	Ozone depleting substances
State Only:	45CSR4	No objectionable odors.

Each State and Federally-enforceable condition of the draft Title V Operating Permit references the specific relevant requirements of 45CSR30 or the applicable requirement upon which it is based. Any condition of the draft Title V permit that is enforceable by the State but is not Federally-enforceable is identified in the draft Title V permit as such.

The Secretary's authority to request any pertinent information such as annual emission inventory reporting is provided in WV Code § 22-5-4(a)(14). The Secretary's authority to require standards under 40 C.F.R. Part 60 (NSPS), 40 C.F.R. Part 61 (NESHAPs), and 40 C.F.R. Part 63 (NESHAPs MACT) is provided in West Virginia Code §§ 22-5-1 *et seq.*, 45CSR16, 45CSR15, 45CSR34 and 45CSR30.

Active Permits/Consent Orders

Permit or Consent Order Number	Date of Issuance	Permit Determinations or Amendments That Affect the Permit (if any)
R13-0137	March 24, 1975	
R13-1165	November 3, 1989	
R13-1646	December 1, 1993	
R13-1767	October 17, 1994	
R13-2163	January 14, 1998	

Conditions from this facility's Rule 13 permit(s) governing construction-related specifications and timing requirements will not be included in the Title V Operating Permit but will remain independently enforceable under the applicable Rule 13 permit(s). All other conditions from this facility's Rule 13 permit(s) governing the source's operation and compliance have been incorporated into this Title V permit in accordance with the "General Requirement Comparison Table B," which may be downloaded from DAQ's website.

Determinations and Justifications

This is a renewal of the Title V Permit. The following changes have occurred since the original Title V permit was issued:

The facility has changed its name from Inco Alloys International, Inc. to Huntington Alloys Corporation.

45CSR2 and 45CSR10 list PM and SO₂ requirements for "all" fuel burning units and "all" stacks, therefore the limits in Conditions 4.1.2. and 4.1.6. were changed to one limit for both B-1-P and B-4-P. 45CSR2 and 45CSR10 have been SIPed, therefore Conditions 4.4.3. and 4.4.4. in the original permit are no longer listed.

The following sources are no longer listed in the Title V Permit Emission Units Table because they are exempt from 45CSR§7-4.1. in accordance with 45CSR§7-10.5, with potential emissions of PM less than 1 pound per hour and less than 1000 pounds per year. In addition, these sources are located inside buildings and have no stacks or emission points.

Melt Shop: West and East Electrode Teeming Pits (MS-3A-P and MS-3B-P), MS Preheat Burners (MS-4A-P, MS-4B-P, MS-4C-P, MS-4D-P, MS-4E-P, MS-4F-P), East and West Bottom Pouring (MS-5A-P and MS-5B-P), Argon Oxygen Degassing Vessel Heater (MS-7-P).

Primary Mill: Reheat Furnaces (PM-9A-F, PM-9-B-F), East and West H.R. Strip Reheat (PM-21-F, PM-22-F), Tip-up Furnace (PM-24-P), Forge press, Hot reversing Strip Mill, Coiler, Hand Held Plasma Torches, Savage Saw, Spot Grinder.

Strip Mill: Chevron Dryer (SM-11P), Leveling Spot Weld Arc Weld (SM-12-P), CAP Kolene Rinse Tank (SM-15-P), Nitric Acid Storage (SM-16-P), #1 CBU, Hill Acme Grinder, #50 Slitter, #2 Slitter, Slit and Cut Line.

Bar & Wire Mill: 23" Mill (BW-7-P), 22" Mill (BW-8P), Cross Country Mill (BW-9-P), Looping Sections #1 and 2 Wire Coilers, #1 Flying Shears, #3 Flying Shears, #4 Flying Shears, Wire Coilers from #4 Flying Shears, Disc Shears, Wire Coilers from Disc Shears, Cold Shears.

Vacuum Induction Melting: Vacuum Induction Melting Furnace, Stress Relief Furnace (VM-1-P), Furnace Shell Preheat (VM-4-P), Stool (base) Drying (VM-6-P), Electrode Drying Area (VA-7-P).

Extrusion/Machine Shop: Stub Welder (EX-5A-V, EX-5B-V, EX-5-S), Small Rod Aging Furnace (EX-6-P), Blaw-Know Medart Straightener, Electric Spot Grind, Cold Saws, Abrasive Saws, Bar Peeler, Pedestal Grinder (MA-3-P), Various Machining Operations, Furnace #7 (BS-1-P), Furnace #17 (BS-2-P).

Remelting: #2 through #7 Vacuum Arc Reduction Furnaces, Crucible Clean (VA-6-P), Electrode Drying Area (VA-7-P).

Cold Draw: Tank #59 Dryer (CD-15-P), Tube Bender Saw (CD-16-P), Drying Tanks #2 & 3 (CD-18-P, CD-19-P), #2, #3, & #4 Cont. Annealing Furnaces (CD-20-P, CD-21-P, CD-22-P), #10A Furnace (CD-24-P), Squeeze Pointer Furnace (CD-25-P), McKay Tube Reducer Saw (CD-26-P), Wean Tube Reducer Saw (CD-28-P), Selas Batch Anneal Furnace (CD-33-P), Bull Block Wire Dryer (CD-37-P)

The following sources no longer have an emission limit listed in the permit because they are exempt from 45CSR§7-4.1. in accordance with 45CSR§7-10.5:

Primary Mill: Forge Furnace F2-21 (PM-10A-P), Forge Furnace F2-22 (PM-10B-P), Ingot Furnace F4-41 (PM-12A-P), Ingot Furnace F4-42 (PM-12B-P), Ingot Furnace F-8 (PM-16-P), Ingot Furnace F9-91 (PM-17A-P), Ingot Furnace F9-92 (PM-17B-P), #1 Carbottom Furnace (PM-18-P), #3 Carbottom Furnace (PM-19-P). **Strip Mill:** CAP Preheat Furnace (SM-6-P), #2 CBU Grinder (SM-10-P).

Vacuum Induction Melting: Tundish Drying Oven (VM-5-P).

Cold Draw: West Cutters - 3 saws (CD-23-P)

The Swing Grinder (PM-27-P) in the Primary Mill Section has been removed.

The Wire Feeder (MS-1E) was installed in 2005. The wire feeder replaced manual feeding of metal into the furnaces and does not increase emissions.

Streamlining: Streamlining language has been added for the PM limits of MA-4-P, PM-20-P, PM-23-P, PM-28-P and PM-29-P. The PM limits from their respective Rule 13 permits were more stringent than the PM limits from 45CSR7.

Chrome Plating: Condition 13.1.6. of the original permit required an initial performance test. This initial testing has been completed, therefore this condition was not included in the renewal permit.

40 CFR 64 - Compliance Assurance Monitoring (CAM) - #4 and #5 Electric Arc Furnaces (MS-1D and MS-1B), the Argon Oxygen Reactor (MS-1A), the Wire Feeder (MS-1E), the Powder Torch (MS-2), and the Cap Line Shot Blaster (SM-2P) have pre-controlled potential emissions that exceed major source thresholds for particulate matter (PM). Each unit is subject to a PM standard and is equipped with a control device that is used to comply with federally-enforceable emission limits associated with their operation. Therefore each unit represents a pollutant specific emissions unit (PSEU) for PM. The submitted plans meet the requirements of the CAM rule.

Emissions from the #4 and #5 Electric Arc Furnaces (MS-1D and MS-1B), the Argon Oxygen Reactor (MS-1A), and the Wire Feeder (MS-1E) are controlled by baghouses MS-1-C1 and MS-1-C2. In accordance with 40 CFR § 64.4.(f), one CAM plan was submitted for these PSEUs. Emissions from the Powder Torch (MS-2) are controlled by baghouse MS-2-C.

Monitoring per the CAM Plan is identical for MS-1A, MS-1B, MS-1D, MS-1E, and MS-2-C and will be as follows:

	MS-1A, MS-1B, MS-1D, MS-1E, MS-2-C		Indicator No. 1	Indicator No. 2
I.	. Indicator		Baghouse pressure drop	Inspection/Maintenance
	Monitoring Approach		Differential pressure drop through the baghouse is measured continuously (permit condition 6.2.3.)	Weekly inspection according to P/M checklist; maintenance performed as needed. (permit condition 6.2.4.)
II.	II. Indicator Range or Designated Condition		Pressure drop between 3 and 8 inches of water (permit condition 6.2.3.)	N/A
III.	Performance Criteria		Pressure drop across the baghouse is measured at the baghouse inlet and	Inspections are performed at the baghouse. (permit condition 6.2.4.)
	A.	Data Representativeness	exhaust. The minimum accuracy of the device is 0.5% (permit condition 6.2.3.)	
	В.	Verification of Operational Status	N/A	N/A
	C.	QA/QC Practices and Criteria	Pressure gauge calibrated quarterly. Pressure taps checked daily for plugging. (permit condition 6.2.3.)	Qualified personnel perform inspection. (permit condition 6.2.4.)
	D.	Monitoring Frequency	The pressure drop is measured continuously. (permit condition 6.2.3.)	Weekly inspections. (permit condition 6.2.4.)
		Data Collection Procedures	Record pressure drop readings continuously. (permit condition 6.4.3.)	Records are maintained to document weekly inspections and any required maintenance. (permit condition 6.4.4.)
		Data averaging periods	None	None

The emissions from the Cap Shot Blaster (SM-2P) are controlled by wet scrubber (SM-2-C). The 45CSR7 PM limit for SM-2P is 9.15 lbs/hr. According to information submitted during the permit review, the actual PM emissions from SM-2P for 2007 were 0.818 tpy or 0.186 lbs/hr. Due to the large margin of compliance, a daily check of the scrubber system, along with monthly inspections, was determined to be sufficient monitoring. Monitoring per the CAM Plan will be as follows:

SM-2	P	Indicator No. 1	Indicator No. 2
I. Indicator		Water level	Inspection/Maintenance
Monitoring Approach		Water level in the scrubber system is measured continuously. Fan operation is monitored continuously. (permit condition 7.2.2.)	Monthly inspection according to P/M checklist; maintenance performed as needed. (permit condition 7.2.3.)

II.	Indicator Range or Designated Condition		Water level is maintained via level switch to operate at the proper level. Fan is operated continuously. (permit condition 7.2.2.)	N/A
III.	Performance Criteria		Water level is measured within the scrubber system. If the water is below	Inspections are performed at the scrubber. (permit condition 7.2.3.)
	Α.	Data Representativeness	the acceptable level, an alarm will notify the operator. (permit condition 7.2.2.)	
	В.	Verification of Operational Status	N/A	N/A
	C.	QA/QC Practices and Criteria	Water level switch is tested quarterly to insure proper operation. Fan operation is checked daily. (permit condition 7.2.2.)	Qualified personnel perform inspection. (permit condition 7.2.3.)
	D.	Monitoring Frequency	Water level is checked continuously. (permit condition 7.2.2.)	Monthly inspections.
		Data Collection Procedures	Record daily scrubber operation checks on log sheets. (permit condition 7.4.1.)	Records are maintained to document monthly inspections and any required maintenance. (permit condition 7.4.1.)
		Data averaging periods	None	None

Non-Applicability Determinations

The following requirements have been determined not to be applicable to the subject facility due to the following:

- a. 40CFR Part 60 subpart Dc The Main Boiler and V.I.M. boiler were constructed before June 9, 1989 and have not been modified after that date. The CAP Salt Bath and West Pickle Salt Bath have capacities less than 10 mmBtu/hr.
- b. 40CFR Part 60 subpart K There are no tanks storing petroleum liquids at the Huntington Alloys facility that were constructed between June 11, 1973 and May 19, 1978 and are greater than 151,412 liters (40,000 gallons).
- c. 40 CFR Part 60, Subpart Ka Some of the petroleum liquid storage tanks exceed the 151,416 liters (40,000 gallons) threshold capacity but are not subject to the standards because the vapor pressures of the storage tanks are less than the 10.3 kilopascal trigger listed in 40 CFR § 60.112a(a) and the 6.9 kilopascal trigger listed in 40 CFR § 60.115a(d)(1).
- d. 40 CFR Part 60, Subpart Kb Some of the tanks storing volatile organic liquids have a capacity greater than 75 m³ and less than 151m³, but are not subject to the provisions of this subpart because the vapor pressures of the tanks are less than the 15 kilopascal trigger listed in 40 CFR§ 60.110b(b).
- e. 40 CFR Part 60, Subpart AAa The #4 Electric Arc Furnace, #5 Electric Arc Furnace, and AOD vessel were installed in 1966, 1971, and 1971 respectively, before the applicability date of this regulation (October 21, 1974). Therefore, this regulation is not applicable to the facility.
- f. 40 CFR Part 63, Subpart CCC HCl Pickling NESHAPS This standard is not applicable to facilities

that pickle specialty steel. Specialty Steel means a category of steel that includes silicon electrical, alloy and stainless steels.

g. 40 CFR Part 63, subpart YYYYY - This standard is applicable to area sources. Huntington Alloys is not an area source of HAPs.

Request for Variances or Alternatives

None.

Insignificant Activities

Insignificant emission unit(s) and activities are identified in the Title V application.

Comment Period

Beginning Date: September 15, 2008 Ending Date: October 15, 2008

All written comments should be addressed to the following individual and office:

Bobbie Scroggie Title V Permit Writer West Virginia Department of Environmental Protection Division of Air Quality 601 57th Street SE Charleston, WV 25304

Procedure for Requesting Public Hearing

During the public comment period, any interested person may submit written comments on the draft permit and may request a public hearing, if no public hearing has already been scheduled. A request for public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing. The Secretary shall grant such a request for a hearing if he/she concludes that a public hearing is appropriate. Any public hearing shall be held in the general area in which the facility is located.

Point of Contact

Bobbie Scroggie West Virginia Department of Environmental Protection Division of Air Quality 601 57th Street SE Charleston, WV 25304

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